Compatibility Test Report of HUAWEI WLAN Solution with Aruba Clearpass

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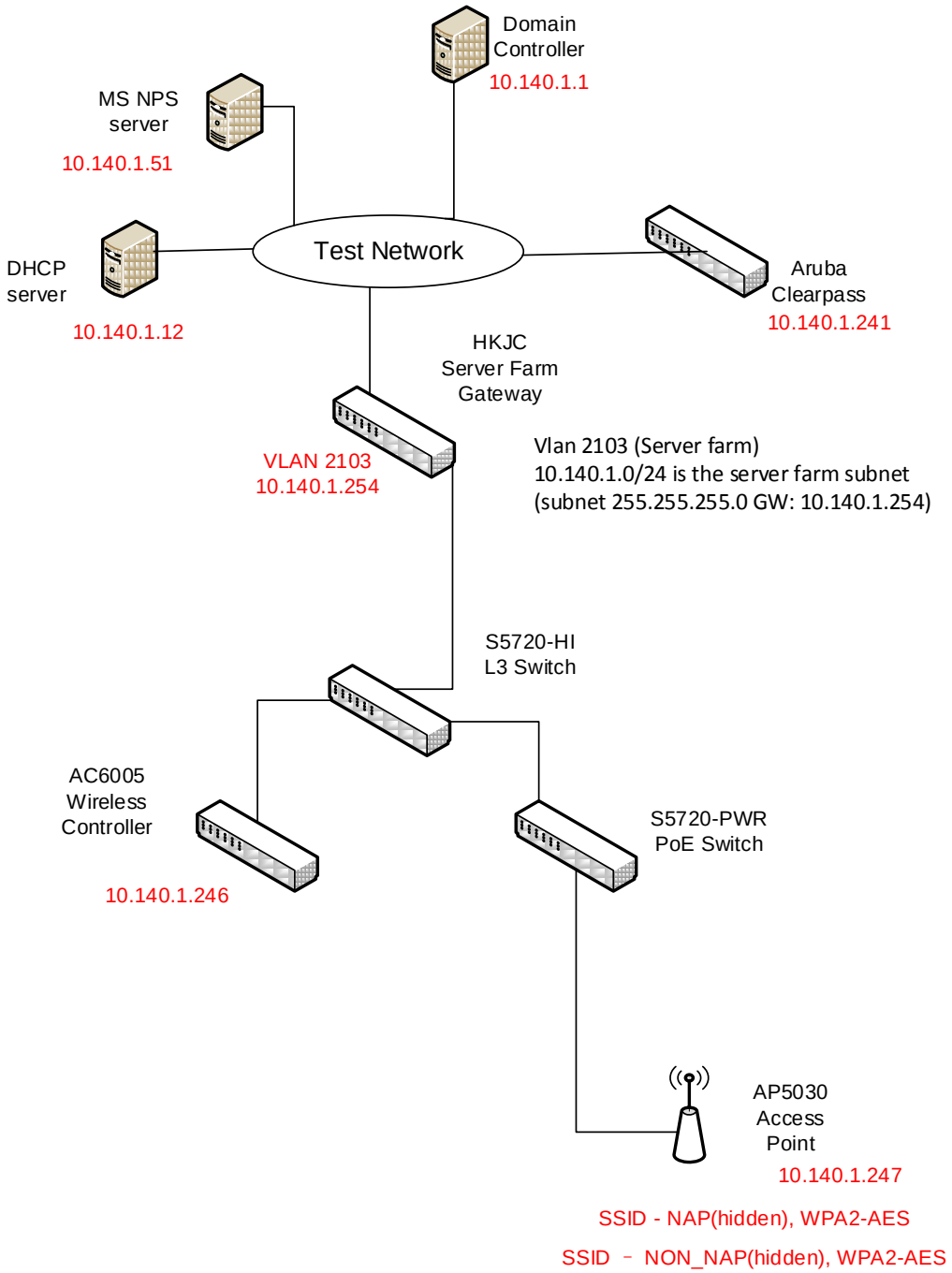
Background

The Customer is one of the oldest institutions in Hong Kong. It is a non-profit organization providing horse racing, sporting and betting entertainment in Hong Kong. It holds a government-granted monopoly in providing pari-mutuel betting on horse racing, the Mark Six lottery, and fixed odds betting on overseas football events. The organization is the largest taxpayer in Hong Kong, as well as the largest community benefactor. It donated a record HK$3.6 billion in 2014 to support the different needs of the society and contribute to the betterment of Hong Kong. The Club also proactively identifies, funds and develops projects which anticipate and address social issues and pressing needs in Hong Kong. It also provides dining, social, sport and recreation facilities to its approximately 23,000 members.

Objective

The POC test is to prove that HUAWEI WLAN device can interwork with Aruba Clearpass NAC server in customer network, including machine authentication, AD account authentication and posture check.

Network Diagram



Service VLAN for SSIDs

a) NAP SSID (Normal): Vlan 2102 (IP subnet 10.138.0.0/16)

b) NAP SSID (Alert): Vlan 2106 (IP subnet 10.128.0.0/16)

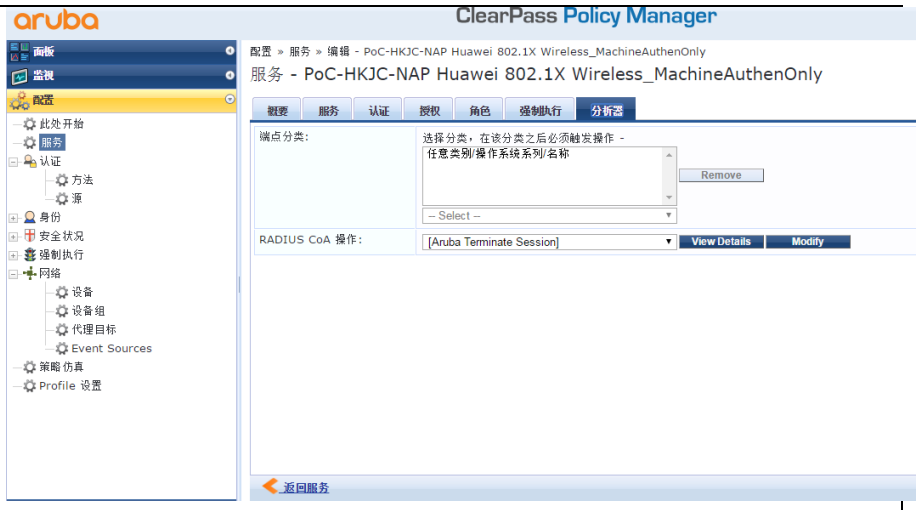
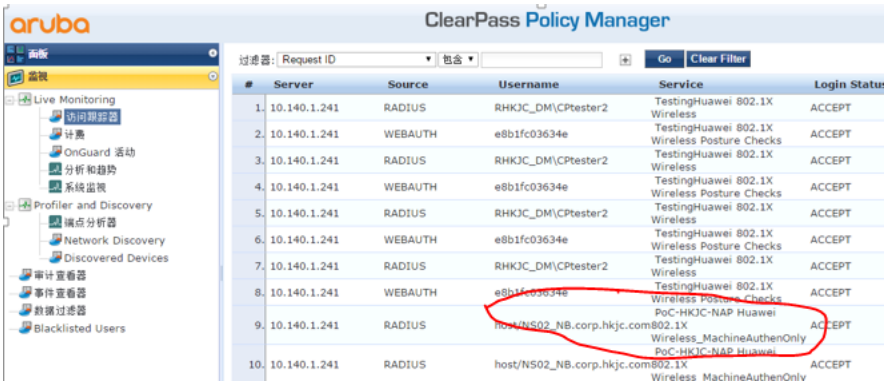
Equipments

Equipment	Name	Version
WLC	AC6005	V200R007C10SPC300
WIFI AP	AP5030	V200R007C10SPC300
NAC	Aruba Clearpass	6.6
Termial	Lenovo Laptop	Win7

Test Case

Machine authentication

Test Item	Machine Authentication
Test Objective	Validate that WLAN system supports machine Authentication
Test Setup	Pre-conditions: 1) All devices work normally 2) Establish the test environment according to the above topology 3) Adding WLC in clearpass server
Test Procedure	1) Configure AC correctly, AP deliver SSID: “H-NAP”, the security policy is WPA2-802.1x; 2) Configure Machine authentication service in Clearpass;

	 3) Reboot laptop and login in, check endpoint log in clearpass server, Expected result 1.
Expected Result	1) Machine authentication is successful in clearpass. 
Remark	
Signature by Customer	**Signature by Vendor**

AD account authentication

Test Item	AD account Authentication
Test Objective	Validate that WLAN system supports AD Authentication
Test Setup	Pre-conditions: 1) All devices work normally 2) Establish the test environment according to the above topology 3) Adding WLC in clearpass server

<table>
<tr>
<td>Test Procedure</td>
<td>
1) Configure AC correctly, AP deliver SSID: “H-NAP”, the security policy is WPA2-802.1x;
2) Configure dot1x authentication service in Clearpass;

</td>
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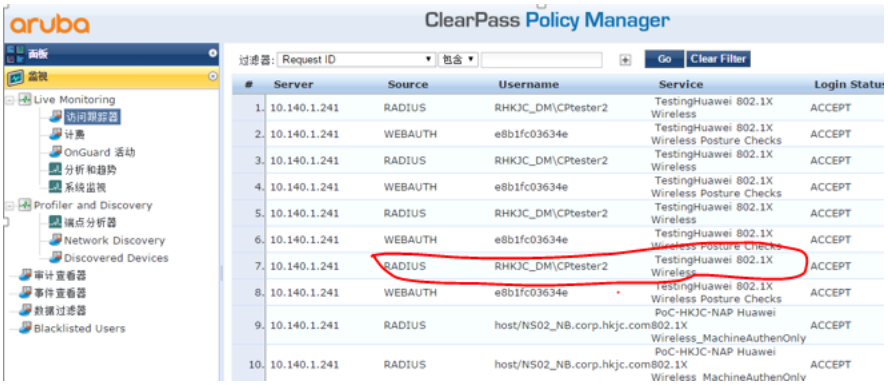
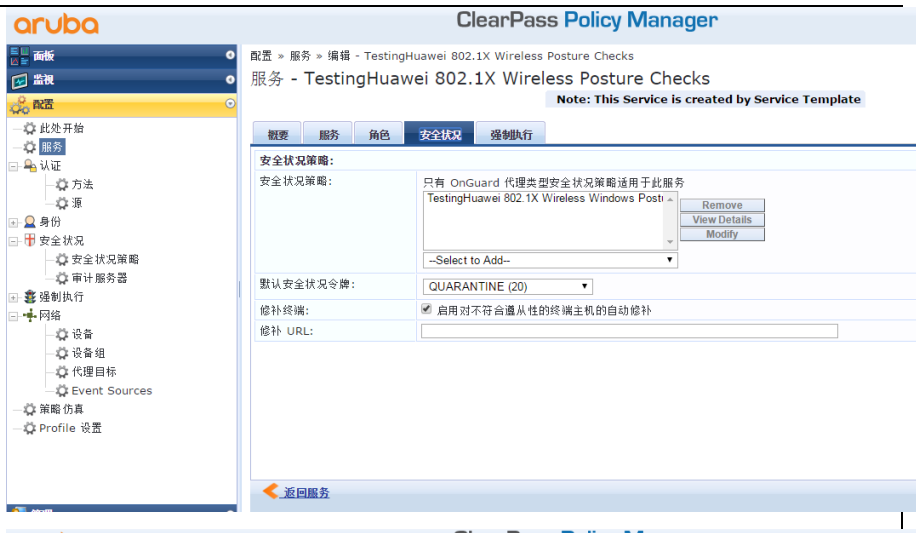
	 3) Using laptop connect H-NAP ssid, input the AD account and password for authentication, check endpoint log in clearpass server, Expected result 1,2.
Expected Result	1) AD authentication is successful in clearpass.  2) Laptop get the ip address of 10.128.0.0/16(VLAN 2102);
Remark	
Signature by Customer	**Signature by Vendor**

Posture check

Test Item	Posture check
Test Objective	Validate that WLAN system supports Posture check
Test Setup	Pre-conditions: 1) All devices work normally

	2) Establish the test environment according to the above topology 3) Adding WLC in clearpass server
Test Procedure	1) Configure AC correctly, AP deliver SSID: “H-NAP”, the security policy is WPA2-802.1x; 2) Configure posture check service in Clearpass;



3) Configure postrue check policy to mark the testing laptop status is health. Enable posture check in laptop, expected result 1,2;

	4) Configure postrue check policy to mark the testing laptop status is unhealth. Enable posture check in laptop, expected result 3,4;		
Expected Result	1) The posture check result in client is health. 2) Laptop get the ip address of 10.138.0.0/16(VLAN 2106); 3) The posture check result in client is unhealth. 4) Laptop get the ip address of 10.128.0.0/16(VLAN 2102);		
Remark			
Signature by Customer		**Signature by Vendor**	